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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.	6001-962
First Inventor	Frasier, Donald J.
Title	METHOD AND APPARATUS FOR PRODUCTION OF A CAST COMPONENT
Express Mail Label No.	EL 984271194 US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:
Commissioner for Patents
Mail Stop Patent Application
P.O. Box 1450, Alexandria, VA 22313-1450

1. *Fee Transmittal Form (e.g., PTO/SB/17)
(submit an original and a duplicate for fee processing)

2. Applicant claims small entity status.

3. Specification [Total Pages **112**]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference sequence listing, a table, or a computer program listing appendix or computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure

4. Drawing(s) (35 U.S.C. 113) [Total Sheets **49**]
 Informal Formal

5. Oath or Declaration [Total Pages **6**]
 a. Newly executed (original or copy)
 b. Copy from a prior application (37 C.F.R. §1.63(d))
 (for continuation/divisional with Box 18 completed)
 i. **DELETION OF INVENTOR(S)**
 Signed statement attached deleting inventor(s)
 named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

6. Application Data Sheet. See 37 CFR 1.76

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 a. Computer Readable Form (CRF)
 b. Specification Sequence Listing on:
 CD-ROM or CD-R (2 copies); or
 paper
 c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))

10. 37 C.F.R. § 3.73(b) Statement Power of Attorney
 (when there is an assignee)

11. English Translation Document (if applicable)

12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations

13. Preliminary Amendment

14. Return Receipt Postcard (MPEP 503)
 (Should be specifically itemized)

15. Certified Copy of Priority Document(s)
 (if foreign priority is claimed)

16. Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i).
 Applicant must attach form PTO/SB/35 or its equivalent.

17. Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP)

of prior application No: 10/462,168

Prior application information: Examiner: _____

Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

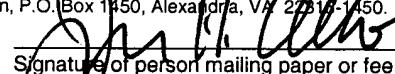
or

 Correspondence address below

Name	Woodard, Emhardt, Moriarty, McNett & Henry LLP				
Address	Bank One Center/Tower 111 Monument Circle, Suite 3700				
City	Indianapolis	State	IN	Zip Code	46204-5137
Country	USA	Telephone	(317) 634-3456	Fax	(317) 637-7561
Name (Print/Type)	John H. Allie			Registration No. (Attorney/Agent)	39,088
Signature				Date	August 1, 2003

Express Mail Label Number EL 984271194 US**Date of Deposit** August 1, 2003

I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR Section 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA 22314-1450.



Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450.

08/01/03
U.S. PTO

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FEE TRANSMITTAL FOR FY 2003

Patent fees are subject to annual revision.

Total Amount of Payment (\$1032.00)

Complete if Known

Application Number	NEW
Filing Date	NEW
First Named Inventor	Frasier, Donald J.
Group Art Unit	
Examiner Name	

6001-962

METHOD OF PAYMENT

FEE CALCULATION (continued)

Check Credit card Money Other Order None

 Deposit Account:

Deposit Account Number

23-3030

Deposit Account Name

Woodard, Emhardt, Moriarty,
McNett & Henry LLP

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) during the pendency of this application, excluding the payment of issue fees
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
1001	750	2001	375	Utility Filing Fee	750.00
1002	330	2002	165	Design Filing Fee	
1003	520	2003	260	Plant Filing Fee	
1004	750	2004	375	Reissue Filing Fee	
1005	160	2005	80	Provisional Filing Fee	
SUBTOTAL (1)					(\$)750.00

2. EXTRA CLAIM FEES

Total Claims	31	-20** =	11	Extra Claims	Fee From Below	Fee Paid
Independent Claims	4	-3** =	1	X	18	= 198
Multiple Dependent				X	84	= 84

Large Entity		Small Entity	
Fee Code	Fee (\$)	Fee Code	Fee (\$)
18		9	Claims in excess of 20
1201	84	2201	42
1203	280	2203	140
1204	84	2204	42
1205	18	2205	9

Independent claims in excess of 3
Multiple dependent claim, if not paid
**Reissue independent claims over original patent
**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 1032.00)

**or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)
1051	130	2051	65
1052	50	2052	25
1053	130	1053	130
1812	2,520	1812	2,520
1804	920*	1804	920*
1805	1,840*	1805	1,840*
1251	110	2251	55
1252	410	2252	205
1253	930	2253	465
1254	1,450	2254	725
1255	1,970	2255	985
1401	320	2401	160
1402	320	2402	160
1403	280	2403	140
1451	1,510	1451	1,510
1452	110	2452	55
1453	1,300	2453	650
1501	1,300	2501	650
1502	470	2502	235
1503	630	2503	315
1460	130	1460	130
1807	50	1807	50
1806	180	1806	180
8021	40	8021	40
1809	750	2809	375
1810	750	2810	375
1801	750	2801	375
1802	900	1802	900
Other Fee (specify)			
* Reduced by Basic Filing Fee Paid			SUBTOTAL (3) (\$ 0.00)

Other Fee (specify)

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0.00)

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	John H. Alie	Registration No. (Attorney/Agent)	39,088	Telephone	(317) 634-3456
Signature				Date	August 1, 2003

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.